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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,300	09/02/2003	Kuo-Ming Wu	250907-1170	2759
24504	7590 09/01/2006		EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			HANNON, CHRISTIAN A	
100 GALLE STE 1750	100 GALLERIA PARKWAY, NW STF 1750		ART UNIT	PAPER NUMBER
-	ATLANTA, GA 30339-5948			
			DATE MAILED: 09/01/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Commons	10/653,300	WU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christian A. Hannon	2618				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06	<u>July 2006</u> .					
2a)⊠ This action is FINAL . 2b)☐ Th	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-14</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-3,7-10 & 14</u> is/are rejected. 7) Claim(s) <u>4-6 and 11-13</u> is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin 11.	ccepted or b) objected to by the le drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

This action is response to applicant's response filed on 07/06/2006. Claims 1-14 are now pending in the present application. **This action is made final.**

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-3,7-10 & 14 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1,5-7 of copending Application No. US 2005/0026577. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Claim 1 in regards to claim 1 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe a method for I/Q

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mismatch calibration of a receiver having an I/Q correction module which performs a function involving parameters.

Claim 2 in regards to claim 1 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe a method involving measuring U1 & U2 parameters obtained from coefficients of a Fourier transform of a signal at positive and negative frequencies.

Claim 3 in regards to claim 1 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe a method for I/Q mismatch calibration of a receiver using a particular test signal.

Claim 7 in regards to claim 5 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe a method for I/Q mismatch calibration of a receiver where two parameters are normalized according to signals associated powers.

Claim 8 in regards to claim 6 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe an apparatus for I/Q mismatch calibration of a receiver having an I/Q correction module which performs a function involving parameters.

Claim 9 in regards to claim 6 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe an apparatus involving measuring U1 & U2 parameters obtained from coefficients of a Fourier transform of a signal at positive and negative frequencies.

Claim 10 in regards to claim 6 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe an apparatus for I/Q mismatch calibration of a receiver using a particular test signal.

Claim 14 in regards to claim 7 of copending Application No. US 2005/0026577 are not patentably distinct from each other because they both describe an apparatus for I/Q mismatch calibration of a receiver where two parameters are normalized according to signals associated powers.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Allowable Subject Matter

3. Claims 4-6 & 11-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

4. Applicant's arguments filed 7/6/2006 have been fully considered but they are not persuasive.

Applicant asserts that that none of the claims in the current application teach or reasonably suggest the feature or limitation of "sending the signal $x_{dem}[n]$ into the I/Q correction module using parameters A_p and B_p and outputting a corrected signal w[n]," as recited in claim 1 of co-pending Application No. US 2005/0026577, the '577

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application. However the claims in the present application read broader than the limitations of the '577 application and are thereby subject to a provisional obviousness-type double patenting rejection as per the reasons stated prior in this action.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian A. Hannon whose telephone number is (571) 272-7385. The examiner can normally be reached on Mon. - Fri. 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christian A. Hannon August 21, 2006 Christian In Aliong 8/28/06
QUOCHIEN B. VUONG
PRIMARY EXAMINER

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